



## Consumer Confidence Report (CCR)

この情報は重要です。  
翻訳を依頼してください。

### 2009 Water Quality Report Chibana Military Family Housing, Okinawa, Japan

#### Introduction

This is an annual report on the quality of tap water delivered to Chibana Military Family Housing. This report's sole purpose is to increase consumer knowledge of drinking water quality, sources, susceptibility, treatment, and drinking water supply management. It also increases awareness of consumers to potential health risks, so they may make informed decisions to reduce those risks, including taking steps toward protecting their water supply.

#### What is a Consumer Confidence Report?

In 1996, Congress amended the Safe Drinking Water Act. It added a provision requiring that all community water systems deliver to their customers a brief annual water quality report. The Japan Environmental Governing Standard (JEGS) does not have a requirement for generation of a CCR. However, Air Force Instruction 48-144, *Safe Drinking Water Surveillance Program*, provides guidance for overseas installations in preparing a water quality report that may be modeled after a CCR.

#### Is my water safe?

Absolutely! No one is concerned more about the potability of your water than 18 CES/Utilities and Bioenvironmental Engineering personnel. Last year, as in years past, your tap water met all JEGS for drinking water health standards. Our office performs regular water testing based on these environmental agencies' requirements. Once again, we are proud to report that our system has not violated a Maximum Contaminant Level (MCL) or any other water quality standard.

#### Do I need to take special precautions?

Some people may be more vulnerable to contaminants in drinking water than the general population. Immuno-compromised persons such as persons with cancer undergoing chemotherapy, persons who have undergone organ transplants, people with HIV/AIDS or other immune system disorders, some elderly, and infants can be particularly at risk from contaminants. These people should seek advice about drinking water from their health care providers. EPA/Centers for Disease Control (CDC) guidelines on appropriate means to lessen the risk of infection by *Cryptosporidium* and other microbial contaminants are available from the Safe Water Drinking Water Hotline (800-426-4791).

#### Why are there contaminants in my drinking water?

Drinking water, including bottled water, may reasonably be expected to contain small amounts of some contaminants. The presence of contaminants does not necessarily indicate that water poses a health risk. As water travels over the surface of the land or through the ground, it dissolves naturally occurring minerals and, in some cases, radioactive material, and can pick up substances resulting from the presence of animals or from human activity. Microbial contaminants, such as viruses and bacteria, may come from sewage treatment plants, septic systems, agricultural livestock operations, and wildlife. Inorganic contaminants, such as salts and metals, can be naturally-occurring or result from urban

stormwater runoff, industrial, or domestic wastewater discharges, oil and gas production, mining, or farming. Pesticides and herbicides may come from a variety of sources such as agriculture, urban stormwater runoff, and residential uses. Organic chemical contaminants, including synthetic and volatile organic chemicals, are by-products of industrial processes and petroleum production, and can also come from gas stations, urban stormwater runoff, and septic systems. Radioactive contaminants can be naturally occurring or be the result of oil and gas production and mining activities. In order to ensure that tap water is safe to drink, EPA prescribes regulations that limit the amount of certain contaminants in water provided by public water systems. Food and Drug Administration (FDA) regulations establish limits for contaminants in bottled water, which must provide the same protection for public health. In Japan, the Government of Japan and the US Forces, Japan, also regulate the quality of drinking water.

#### Chibana Military Family Housing Water System Information

Chibana Military Family Housing drinking water is operated and maintained by the 18th Civil Engineer Squadron. The water is pumped from the Ishikawa and Chatan water treatment plants. The water supply to these treatment plants is a combination of surface rivers and reservoirs, a desalination plant fed by the East China Sea, and ground water wells located on Kadena AB.

#### Monitoring of Your Drinking Water

We use only EPA-approved laboratory methods to analyze your drinking water. Our trained personnel take water samples from the distribution system and residents' taps. Samples are then shipped to an accredited laboratory where a full spectrum of water quality analyses is performed. The 18th Aerospace Medicine Squadron, Bioenvironmental Engineering Flight, collected 50 samples in 2009, which were analyzed for 9 different contaminants. Of these nine contaminants, we detected six and found none at a level higher than the JEGS Maximum Contaminant Level (MCL). Results for these six chemicals are located on the next page.

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THIS REPORT IS AVAILABLE ON THE WEB:

<http://www.kadena.af.mil>

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## 2009 Water Quality Table

Inorganic Contaminants	Unit of Measurement	MCL	Highest Level Detected	Violation	Possible sources of contamination
Lead	mg/L	AL = 0.015	0.0022	No	Corrosion from household plumbing systems
Zero out of 10 samples were found to have lead levels in excess of the Action Level of 0.015 mg/L. The JEGS states 90% of samples must be below the action level.					
Copper	mg/L	AL = 1.3	0.03	No	Erosion of natural deposits
Zero out of 10 samples were found to have copper levels in excess of the Action Level of 1.3 mg/L. The JEGS states 90% of samples must be below the action level.					
Microbiological Contaminants	Unit of Measurement	MCL	Highest Level Detected	Violation	Possible sources of contamination
Total Coliform	# of Positives / month	> 1 positive	1	No	Naturally present in the environment
Residual Disinfectants	Unit of Measurement	MCL	Highest Level Detected	Violation	Possible sources of contamination
Free Chlorine	PPM	NA	0.52	No	Water additive used to control microbes
Disinfection By-products	Unit of Measurement	MCL	Highest Level Detected	Violation	Possible sources of contamination
Total Trihalomethanes	mg/L	0.08	0.0593	No	By-product of drinking water chlorination
Haloacetic Acids	Mg/L	0.06	0.0138	No	By-product of drinking water chlorination

**Abbreviations Used:**

**NA:** not applicable

**mg/L:** milligrams per liter

**ppm:** parts per million

**Definitions Used:**

**MCL:** Maximum Contaminant Level: The highest level of a contaminant that is allowed in drinking water.

**AL** – Action Level: The concentration of a contaminant which, if exceeded, triggers treatment or other requirements which a water system must follow.

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## Frequently Asked Questions

### Why does the water sometimes look rusty?

Rusty or reddish tinted water may occur because of a sudden change in pressure due to improper flushing of a fire hydrant, etc. Iron causes the discoloration: it is not a health risk. The normal flow of water will usually clear the mains within two hours or less. Check your water by flushing a commode bowl three times every 15 to 20 minutes. If you live on or near the end of a long, main distribution line, additional flushing may be required. Galvanized iron pipes or fittings within a home or building may also cause discolored water. Running the water will clear the piping system. If the hot water is rusty, the water heater may need to be flushed.



### What is a Precautionary Boil Advisory?

If a problem is detected in the system, such as a drop in pressure, a water main break, or a routine positive coliform sample, Bioenvironmental Engineering puts out a Precautionary Boil Advisory and immediate testing requirements go into effect. Boil Advisories are precautionary and do NOT necessarily mean that contamination has been detected. The notice will describe any precautions you need to take such as boiling your water to kill any potential bacteria. Retesting continues until the system can reliably demonstrate that it is free of problems.

### Is it okay to drink from a garden hose?

The water is safe but a garden hose is treated with special chemicals that make it flexible. Those chemicals are not good for you and neither are the bacteria that may be growing inside the hose.

### Will using a home water filter make the water safer or healthier?

Most filters improve the taste, smell and appearance of water, but they don't necessarily make the water safer or healthier. Please keep in mind that filters require regular maintenance and replacement, if ignored, water quality problems may occur.

### What can I do to improve the quality of my drinking water?

Running the cold water tap for 30 seconds prior to use helps to flush out metals that may leach into the water that has been sitting in the pipes overnight. Water used for consumption should always come from the cold water tap. Hot water has more potential to leach metals into the water.

### How will I know if my water isn't safe to drink?

Your water supplier must notify you by newspaper, mail, radio, TV, or a hand-delivered notice if your water doesn't meet standards or if there is a waterborne disease emergency. The notice will describe any precautions you need to take, such as boiling your water.

### Doesn't the water system have a lead problem?

In 2009, none of the 10 samples were found to have lead levels in excess of the Action Level of 0.015 mg/L. The Japan Environmental Governing Standards (JEGS) states 90% of samples must be below the action level. The water system will continue to be sampled for lead following the reduced monitoring plan.

### I don't like the taste/smell/appearance of my tap water? What's wrong with it?

Even when water meets standards, you may still object to its taste, smell, or appearance. Taste, smell and appearance are also known as aesthetic characteristics and do not pose health effects. Common complaints about water aesthetics include: temporary cloudiness (typically caused by air bubbles) or chlorine taste (which can be improved by letting the water stand exposed to the air).

### What is backflow and how can I prevent it?

It's just what it sounds like: the water is flowing in the opposite direction from its normal flow. With the direction of the flow reversed, due to a change in pressure, backflow can allow contaminants to be pulled into the drinking water. The following tips may help to reduce the potential for backflow:

- Don't submerge hoses in buckets, pools, tubs, or sinks.
- Don't attach chemical sprayers to your garden hose without first installing a backflow prevention device such as a vacuum breaker on the spigot. This is an inexpensive device that can be purchased at any plumbing or hardware store and installation is as easy as attaching your garden hose to a spigot. The chemicals used on your lawn can be fatal if ingested.